Introducing radomes, with Dyneema® Crystal Technology

The benefits of Dyneema® Crystal Technology

Maximize the performance of your radar. Only with Dyneema® Crystal Technology

How do you design a radome that does not compromise the performance of your highly sensitive radar system? It needs to offer reliable protection, with zero signal loss.

Dyneema® Crystal Technology is a new technology platform of Dyneema® for radomes. The ultra high molecular weight polyethylene material retains its electromagnetic properties in all radome configurations. This technology platform provides maximum transparency and predictability over a wide range of frequencies. Benefits are:

- Crystal clear radar performance
- Reach maximum range
- Identify smaller objects
- Receive weak signals

New benchmark in performance

The electromagnetic properties of Dyneema® Crystal Technology outperform all other materials used for radomes. It will give your radar system superior consistency and predictability at the widest range of frequencies.

The high tensile strength and low density makes it one of the world’s strongest materials, and yet very light.

Military

Radomes made with Dyneema® Crystal Technology provide the highest level of protection and performance to sensitive and critical equipment in hostile military environments.

Commercial

For all radar and antenna systems, using radomes made with Dyneema® Crystal Technology ensures reducing performance at the highest level.

Telecoms

The high transparency extends across a broad frequency range making Dyneema® Crystal Technology ideal for broadband applications in telecommunications. It is also the lightest and most durable choice.

Dyneema® Crystal Technology is available in many product forms for radomes, based on bonded tape, UD and (coated) fabric.

Materials expertise and advice.

Our scientists and application engineers at DSM Dyneema are the world’s leading experts in ultra high molecular weight polyethylene.

Our services

Design advice. Consultation for engineering the total radome solution.

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Materials

Solution engineering

Manufacturing & supply

Now the world’s strongest radome is invisible to microwaves

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